

Anti-CYP7A1 Polyclonal Antibody 2

Product Details

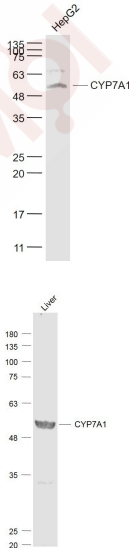
Ig Type: IgG
Reactivity: Human, Mouse (predicted: Rat)
Molecular Weight: Theoretical: 55 kDa. Actual: 55 kDa.
Purification: Protein A purified

Applications

1. Sample:
HepG2 (Human) Cell Lysate at 30 µg
Primary: Anti-CYP7A1 (TMAB-00526) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kDa
Observed band size: 55 kDa

2. Sample:
Liver (Mouse) Lysate at 40 µg
Primary: Anti-CYP7A1 (TMAB-00526) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kDa
Observed band size: 55 kDa

Verified Activity:



Application: WB
Recommended WB: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: mouse CYP7A1

Antigen Species: Mouse

Gene ID: 13122

Uniprot ID: Q64505

Synonyms: CP7A;CYPVII;Cholesterol 7-alpha-monooxygenase;Cytochrome P450 7A1;cytochrome P450, family 7, subfamily A, polypeptide 1;CYP7;Cholesterol 7 alpha monooxygenase;Cholesterol 7-alpha-hydroxylase;CP7A1;Cholesterol 7 alpha hydroxylase;Cytochrome P450, subfamily VIIA (cholesterol 7 alpha monooxygenase)

Biology Area: Lipid metabolism,Cancer,Cytochromes,Lipid metabolism,Lipases,Cholesterol Metabolism,Cytochromes,Cholesterol Metabolism,Metabolism of lipids and lipoproteins

Research Background

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body. Polymorphisms in the promoter of this gene are associated with defects in bile acid synthesis. [provided by RefSeq, Feb 2010].

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481